electric VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

Product designation Product type designation Product designation Product type designation Product designation P				0000
Product obsignation monitoring relays Product type designation PMV30 Ceneral characteristics Minimum AC voitage, phase loss and incorrect phase sequence relay Description Three-phase sequence relay Type of system Three-phase sequence relay Power supply Three-phase sequence relay Qperating voltage range Self powered Qperating voltage range N/2 30 30 Power consumption Max VA 30 30 Power dissipation Max VAC 30 30 Control circuit Min Max VAC 30 Type of lease Max VAC 30 3 Res				Electronic of
Product obsignation monitoring relays Product type designation PMV30 Ceneral characteristics Minimum AC voitage, phase loss and incorrect phase sequence relay Description Three-phase sequence relay Type of system Three-phase sequence relay Power supply Three-phase sequence relay Qperating voltage range Self powered Qperating voltage range N/2 30 30 Power consumption Max VA 30 30 Power dissipation Max VAC 30 30 Control circuit Min Max VAC 30 Type of lease Max VAC 30 3 Res				養 審 !
Product obsignation monitoring relays Product type designation PMV30 Ceneral characteristics Minimum AC voitage, phase loss and incorrect phase sequence relay Description Three-phase sequence relay Type of system Three-phase sequence relay Power supply Three-phase sequence relay Qualifiary supply voltage Us Self powered Operating voltage range 1.2 50/60 ±5% Power consumption Max VA 3 3 Power dissipation Max VA 3 3 Power dissipation Max VA 3 3 Control circuit min VA 3 3 Rated voltage to control (Ue) min VA 3 3 Tripping delay s 1.20 5 4 3 1 4 9 9 4 2 5 6 1 2 9 4 2 5 6 1 2 9 4 2 5 6 5 5 6				* *
Product obsignation monitoring relays Product type designation PMV30 Ceneral characteristics Minimum AC voitage, phase loss and incorrect phase sequence relay Description Three-phase sequence relay Type of system Three-phase sequence relay Power supply Three-phase sequence relay Qualifiary supply voltage Us Self powered Operating voltage range 1.2 50/60 ±5% Power consumption Max VA 3 3 Power dissipation Max VA 3 3 Power dissipation Max VA 3 3 Control circuit min VA 3 3 Rated voltage to control (Ue) min VA 3 3 Tripping delay s 1.20 5 4 3 1 4 9 9 4 2 5 6 1 2 9 4 2 5 6 1 2 9 4 2 5 6 5 5 6				
Product type designation General characteristics	Product designation			
Description	Product type designation			• •
Description				
Description Ioss and incorrect phase sequence phase without neutral Power supply Immediate you poly voltage US Self powered Operating voltage range 0.712 Ue 3.0 Rated frequency Hz 50/60±5% Power consumption Max VA 30 Power dissipation Max VA 30 Control circut Transparence Transparence Rated voltage to control (Ue) min VA 380 Voltage set-point (%Ue) min VA 30 Voltage set-point (%Ue) min VA 30 Resetting time s 0.120 Resetting time s 0.120 Resetting hysteresis s 0.120 Resetting hysteresis w 3 Instantaneous tripping for Ue Voltage <70% Ue				
Propession Pr	Description			
Type of system	Description			
Self power supply Auxiliary supply voltage Us Self powered Operating voltage range Operating voltage				
Number of relays Number of r	Type of system			
Auxiliary supply voltage US Self powered Operating voltage range 0.71.2 Ue Rated frequency Hz 50/60 ±5% Power consumption Max VA 30 Power dissipation Max W 2.5 Control circut Rated voltage to control (Ue) min VAC 380 Max VAC 575 Voltage set-point (%Ue) min % 8095 Tripping delay s 0.120 Resetting time s 0.120 Resetting hysteresis % 3 Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue				without neutral
Operating voltage range 0.71.2 Ue Rated frequency Hz 50/60 ±5% Power consumption Max W 2.5 Control circut Rated voltage to control (Ue) min VAC 380 Max VAC 380 Max VAC 575 Voltage set-point (%Ue) min VAC 380 Resetting time \$ 0.120 0.5 at Resetting time \$ 0.120 (0.5 at power up) Resetting hysteresis % 3 0.120 (0.5 at power up) Resetting hysteresis % 3 Automatic 4.00 0.00	* * *			Solf nowared
Rated frequency Hz 50/60 ±5% Power consumption Max VA 30 Power dissipation Max W 2.5 Control circut Rated voltage to control (Ue) min VAC 380 Max VAC 575 Voltage set-point (%Ue) min % 8095 Tripping delay s 0.120 (0.5 at power up) Resetting time s 0.120 (0.5 at power up) Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue				
Power consumption Max VA 30 Power dissipation Max W 2.5 Control circut W 2.5 Rated voltage to control (Ue) min VAC 380 Max VAC 575 Voltage set-point (%Ue) min % 8095 Tripping delay s 0.120 Resetting time s 0.120 (0.5 at power up) Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue Type of reset Automatic Repeat accuracy % <±0.1 Tripping time for phase loss ms 60 Relay outputs Nr. 1 Number of relays Nr. 1 Number of relays Nr. 1 Relay state Nr. 1 Contact arrangement PDT Name of the properties of tripping Contact arrangement XAC 250 Maximum switching voltage VAC 400 IEC Conventional free ai	1 0 0		Hz	
Power dissipation Max W 2.5 Control circut Image: Control (Ue) Image: Control (Ue) Image: Control (We) VAC 380 (Max) VAC 575 Voltage set-point (%Ue) min % 8095 8095 8020 8020 120 120 120 (0.5 at power up) 90.120 (0.5 at power up) 9020 (0.5 at power up) 120 (0.5 at				
Control circut Rated voltage to control (Ue) min Max VAC				
Voltage set-point (%Ue) min Max VAC VAC 380 Max Voltage set-point (%Ue) min % 8095 Tripping delay \$ 0.120 Resetting time \$ 0.120 (0.5 at power up) Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue	·			
Voltage set-point (%Ue) min % 8095 Tripping delay s 0.120 Resetting time s 0.120 (0.5 at power up) Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue	Rated voltage to control (Ue)			
Voltage set-point (%Ue) min % 8095 Tripping delay s 0.120 0.5 at power up) Resetting time s 0.120 (0.5 at power up) 0.5 at		min		
Tripping delay s 0.120 Resetting time s 0.120 (0.5 at power up) Resetting hysteresis s 0.120 (0.5 at power up) Instantaneous tripping for Ue Voltage <70% Ue		Max	VAC	575
Tripping delay s 0.120 Resetting time s 0.120 (0.5 at power up) Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue	Voltage set-point (%Ue)		0.4	
Resetting time s 0.120 (0.5 at power up) Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue	Tringing date:	mın		
Resetting further S power up) Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue	Tripping delay		S	
Resetting hysteresis % 3 Instantaneous tripping for Ue Voltage <70% Ue	Resetting time		S	
Type of reset Automatic Repeat accuracy % <±0.1	Resetting hysteresis		%	3
Repeat accuracy % <±0.1 Tripping time for phase loss ms 60 Relay outputs Number of relays Nr. 1 Normally energised Deenergises at tripping Contact arrangement 1 changeover SPDT Rated operational voltage AC (IEC) VAC 250 Maximum switching voltage VAC 400 IEC Conventional free air thermal current Ith A 8 UL/CSA and IEC/EN 60947-5-1 designation B300 Electrical life (with rated load) cycles 100000 Mechanical life cycles 3000000				
Tripping time for phase loss Relay outputs Number of relays Relay state Relay state Contact arrangement Rated operational voltage AC (IEC) Maximum switching voltage IEC Conventional free air thermal current lth UL/CSA and IEC/EN 60947-5-1 designation Electrical life (with rated load) Mechanical life Mr. 1 Normally energised Deenergises at tripping 1 changeover SPDT NAC 250 VAC 400 BB300 Electrical life (with rated load) Cycles 3000000				
Relay outputsNumber of relaysNr.1Relay stateNormally energised Deenergised Deenergises at trippingContact arrangement1 changeover SPDTRated operational voltage AC (IEC)VAC250Maximum switching voltageVAC400IEC Conventional free air thermal current IthA8UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles100000Mechanical lifecycles30000000				
Number of relaysNr.1Relay stateNormally energised Deenergises at trippingContact arrangement1 changeover SPDTRated operational voltage AC (IEC)VAC250Maximum switching voltageVAC400IEC Conventional free air thermal current lthA8UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles100000Mechanical lifecycles3000000			ms	60
Relay state Normally energised Deenergises at tripping	• •		Nlr	1
Relay state energised Deenergises at tripping Contact arrangement 1 changeover SPDT Rated operational voltage AC (IEC) VAC 250 Maximum switching voltage VAC 400 IEC Conventional free air thermal current Ith A 8 UL/CSA and IEC/EN 60947-5-1 designation B300 Electrical life (with rated load) cycles 100000 Mechanical life cycles 3000000	Number of relays		INI.	
Contact arrangement Rated operational voltage AC (IEC) Maximum switching voltage IEC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation Electrical life (with rated load) Mechanical life VAC 400 B300 Electrical life (with rated load) Cycles 3000000	Delovietote			•
Contact arrangement1 changeover SPDTRated operational voltage AC (IEC)VAC 250Maximum switching voltageVAC 400IEC Conventional free air thermal current IthA 8UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles 100000Mechanical lifecycles 3000000	Relay state			_
Rated operational voltage AC (IEC) Maximum switching voltage IEC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation Electrical life (with rated load) Mechanical life SPDT VAC 250 VAC 400 B 8 Cycles 100000 Cycles 3000000				
Maximum switching voltageVAC400IEC Conventional free air thermal current IthA8UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles100000Mechanical lifecycles3000000	Contact arrangement			
IEC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation Electrical life (with rated load) Mechanical life Cycles 3000000	Rated operational voltage AC (IEC)		VAC	250
UL/CSA and IEC/EN 60947-5-1 designationB300Electrical life (with rated load)cycles 100000Mechanical lifecycles 3000000				400
Electrical life (with rated load) Mechanical life cycles 100000 cycles 3000000			Α	
Mechanical life cycles 3000000				
,				
Functions			cycles	3000000
	Functions ————————————————————————————————————			



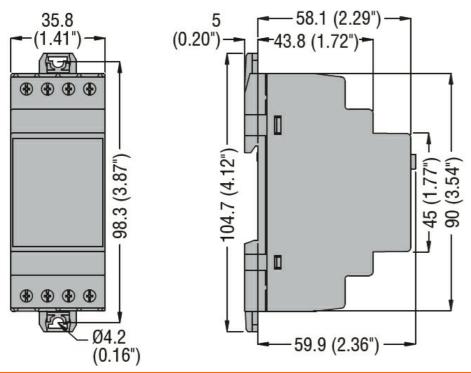
ENERGY AND AUTOMATION

electric VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

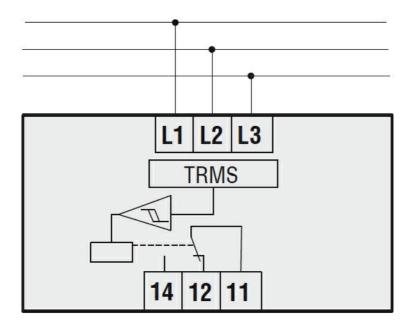
Modular version				2U
Minimum AC voltage				Yes
Maximum AC voltage				No
Phase loss				Yes
Incorrect phase seque	nce			Yes
Asymmetry				No
Indications				
Indication Connections				1 green LED for power on and tripping and 1 red LED for tripping
Terminals type				Screw
Tightening torque for te	erminals			OCICW
		max max	Nm Ibin	0.8 7
Conductor cross section				
	AWG/Kcmil			
		min	AWG	24
	IFO	Max	AWG	12
	IEC	min	mm²	0.2
		Max	mm²	4
Insulations		TTICOX		
Ilibulations				
	e Ui		V	600
Rated insulation voltag Rated impulse withstar			V kV	600
Rated insulation voltag	nd voltage Uimp			
Rated insulation voltag Rated impulse withstar	nd voltage Uimp		kV	6
Rated insulation voltag Rated impulse withstar Operating frequency w	nd voltage Uimp ithstand voltage		kV	6
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions	nd voltage Uimp		kV kV	6 4
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions	nd voltage Uimp ithstand voltage	min	kV kV °C	-20
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions	nd voltage Uimp ithstand voltage Operating temperature	min max	kV kV	6 4
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions	nd voltage Uimp ithstand voltage	max	kV kV °C °C	-20 +60
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions	nd voltage Uimp ithstand voltage Operating temperature	max min	kV kV °C °C	-20 +60
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions Temperature	nd voltage Uimp ithstand voltage Operating temperature	max	kV kV °C °C	-20 +60
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions Temperature Housing	ond voltage Uimp ithstand voltage Operating temperature Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions Temperature	ond voltage Uimp ithstand voltage Operating temperature Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing
Rated insulation voltage Rated impulse withstar Operating frequency we Ambient conditions Temperature Housing Execution (n° of module)	ond voltage Uimp ithstand voltage Operating temperature Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions Temperature Housing Execution (n° of modul Material	ond voltage Uimp ithstand voltage Operating temperature Storage temperature	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions Temperature Housing Execution (n° of modul Material Mounting IEC degree of protecti Dimensions (W x H x E	on d voltage Uimp ithstand voltage Operating temperature Storage temperature Ies)	max min	kV kV °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front;
Rated insulation voltag Rated impulse withstar Operating frequency w Ambient conditions Temperature Housing Execution (n° of modul Material Mounting IEC degree of protecti	on d voltage Uimp ithstand voltage Operating temperature Storage temperature Ies)	max min	kV kV °C °C °C	-20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; IP20 at terminals 35.8 x 104.7 x

ENERGY AND AUTOMATION

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ



Wiring diagrams



Certifications and	compliance
Compliance	
	CSA C22.2 n° 14
	IEC/EN 60255-5
	IEC/EN 61000-6-2
	IEC/EN 61000-6-3
	UL 508
Certificates	
	cULus
	EAC





VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

ETIM classification

ENERGY AND AUTOMATION

ETIM 8.0

EC001438 -Voltage monitoring relay